

Permanent Underground Development Waste Disposal Site

Map Code: identified by name, Plate II-1

Status: Proposed

Underground development wastes currently stored on the northwest coal stockpile site and any new development wastes generated will be permanently buried in this disposal site. This disposal area is a 4.3 acre site located at the gravel borrow pit on the hilltop, east of the northwest coal stockpile area. A complete description of this disposal site is given in this part under UMC 784.19, with design information located in Chapter IV. Post mine drainage of this area can be found at CH VI, App. VI-7.

Parking Area

Map Coder 35, Plate II-1

Status: existing - prior to 1975

The employee parking area is located near the office and bathhouses and provides ample space for employees and visitors. The parking area is within the approved surface drainage control area.

Training Pad Area

Map Coder 41, Plate II-1

Status: proposed 2008

This area is located near the employee parking area and will consist of a concrete pad 37' x 47' x 4". This pad will be used for annual MSHA training. The training pad area is within the approved surface drainage control and disturbed area.

Mine Yard Roads

Map Code: 36, Plate II-1

Status: existing - prior to 1975

The mine yard road system is comprised of four (4) sections. Two (2) are Class I roads and two (2) are Class II roads. The first section, a Class I road, begins at the mine gate and ends at the warehouse office building. Section 2, a Class II road, branches off of section 1 and accesses the storage area west of the warehouse/office building. Section 3 is a Class I road which starts at the mine yard and accesses the coal storage area south of Quitchupah Creek. This section crosses an approved bridge over the Creek. Section 4, a Class II road, is located between the tippie stockpile and the ventilation fan building. As-built cross sections for the Class I roads are contained in Chapter IV

All of these roads are within the approved surface drainage control area and are periodically watered down during dry weather to prevent fugitive dust.

Mine Rescue Storage Area

Map Code: 37, Plate II-I

Status: existing - prior to 1975

This structure is a utility trailer parked in the mine yard. It is used to provide mobility for the mine rescue equipment in the event that it (and the mine rescue team) is needed elsewhere. This unit is contained within the approved surface drainage control system.

Revised 2/08

Revised 8/08

File in:

☐ Confidential

☐ Shelf

☒ Expandable

Refer to Record No. 0050 Date 08/11/2008
In C1015-0015 2008 Incoming
For additional information

Bonding Calculations

Direct Costs

Subtotal Demolition and Removal	\$218,232.00
Subtotal Backfilling and Grading	\$1,251,465.00
Subtotal Revegetation	\$510,251.00
Direct Costs	\$1,979,948.00

Indirect Costs

Mob/Demob	\$197,995.00	10.0%
Contingency	\$98,997.00	5.0%
Engineering Redesign	\$49,499.00	2.5%
Main Office Expense	\$134,636.00	6.8%
Project Mainagement Fee	\$49,499.00	2.5%
Subtotal Indirect Costs	\$530,626.00	26.8%

Total Cost	\$2,510,574.00
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Escalation factor	0.012
Number of years	5
Escalation	\$154,293.00

Reclamation Cost Escalated	\$2,664,867.00
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Bond Amount (rounded to nearest \$1,000) 2009 Dollars	\$2,665,000.00
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Bond Posted 2004 dollars	\$2,648,000.00
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Difference Between Cost Estimate and Bond	-\$17,000.00
Percent Difference	-0.64%

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Triple Stackler Reclaim 01																			19595
	Triple Control Station 02																			377
	Triple Transformer Bld 03																			346
	Steam Cleaner Bld 04																			360
	Transformer Storage Pad 05																			280
	Mine Substation 06																			5144
	Rock Dust Silo 07																			454
	Mine Fan Bld 08																			1086
	Foreman Office Trailer 09																			1448
	Warehouse Office Bld 10																			696
	Fresh Water Treatment Bld 11																			2920
	Explosive Storage Bld 12																			44
	Bathhouse 3 Trailers 13																			3989
	Truck Scale Old 14																			1182
	Truck Scale New 15																			1049
	Bridge Outchupah Creek 16																			437
	Sewage Pumping Station 17																			15076
	Borehole Pump Facility 18																			2593
	Power Line 19																			190
	Metal Storage Bld 20																			655
	Storage Tank Containment Area 21																			816
	Water Tank 100000 Gallon 22																			587
	Stoker Oil Heater Enclosure 23																			3989
	NFDES Outfalls 24																			41760
	Storage Trailers Three 25																			20800
	Fence 26																			
	Seal Portals 27																			
	4th East Portal																			
	Crusher Screen Building 28																			10242
	Conveyor System 29																			343
	Radial Stackler 30																			928
	Water Tank 31																			4805
	Rock Dust Bin 32																			513
	Ventilation Fan 33																			8896
	Coal Stockpile Feeder 34																			74
	Loadout 35																			6519
	Powerline 36																			9513
	Entrances 4th East 37																			25500
	Wind Fence 38																			1003
	Cattle Guard 39																			361
	Concrete Barriers 40																			1270
	Sampler Building 41																			4511
	Oil Storage Building																			2963
	Recessed Feeder																			202
	Trash Pit																			603
	Forth East Fence 45																			8959
	Skid Mounted Sheds 46																			3090
	Rescue Training Pad 47																			419
	Total																			218232

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Rescue Training Pad 47																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemol	3.97 /CY	/CY	37	47	0.33								ft		1.3	21 CY	83
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39 /CY	/CY														27 CY	38
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44 /CY	/CY														27 CY	93
	Disposal Costs	On site disposal	02220 240 5550	7.6 /CY	/CY														27 CY	205
	Subtotal																		419	419
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			419